

NAME:

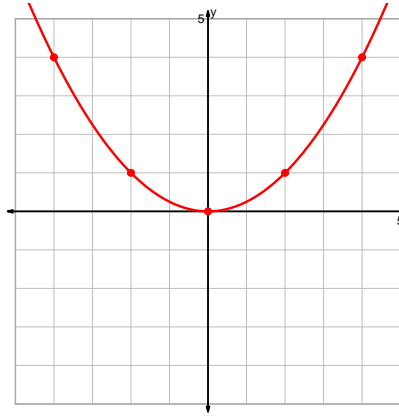
DATE:

Unit-2 Reduced Mastery Assessment (version 302)

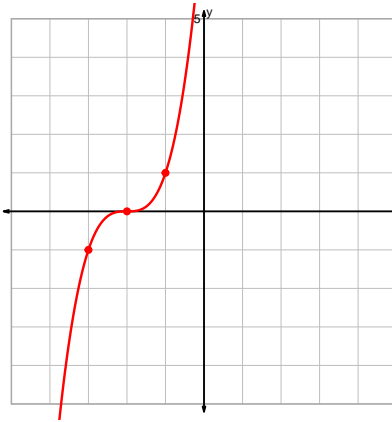
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

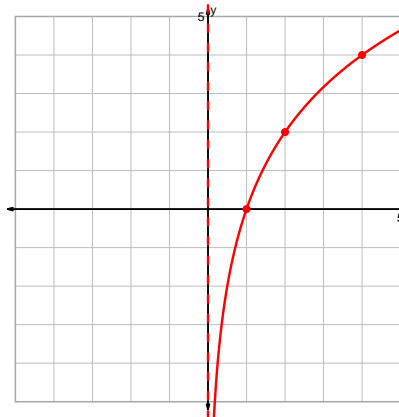
$$y = \left(\frac{x}{2}\right)^2$$



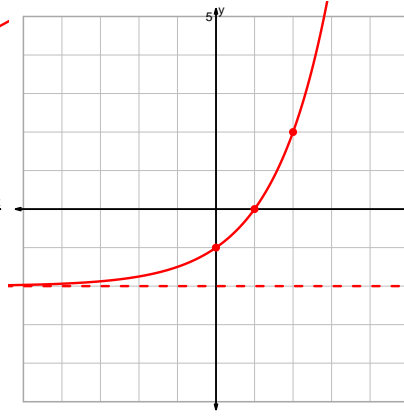
$$y = (x+2)^3$$



$$y = 2 \cdot \log_2(x)$$

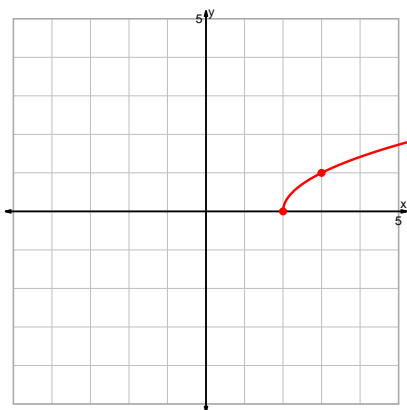


$$y = 2^x - 2$$

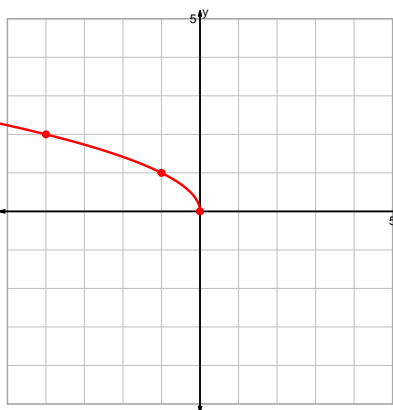


Question 2 continued...

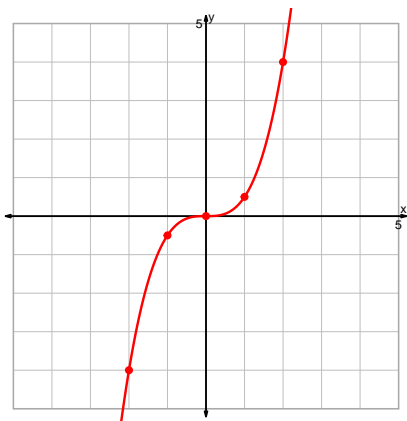
$$y = \sqrt{x-2}$$



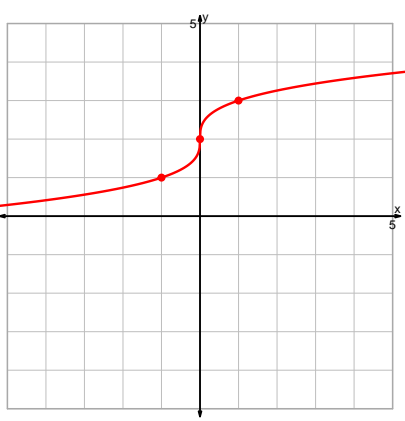
$$y = \sqrt{-x}$$



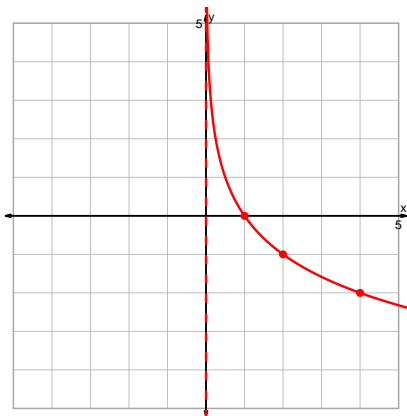
$$y = \frac{x^3}{2}$$



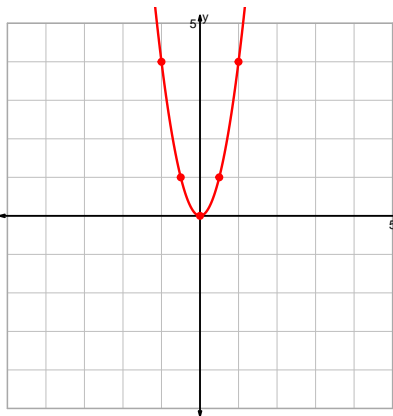
$$y = \sqrt[3]{x} + 2$$



$$y = -\log_2(x)$$

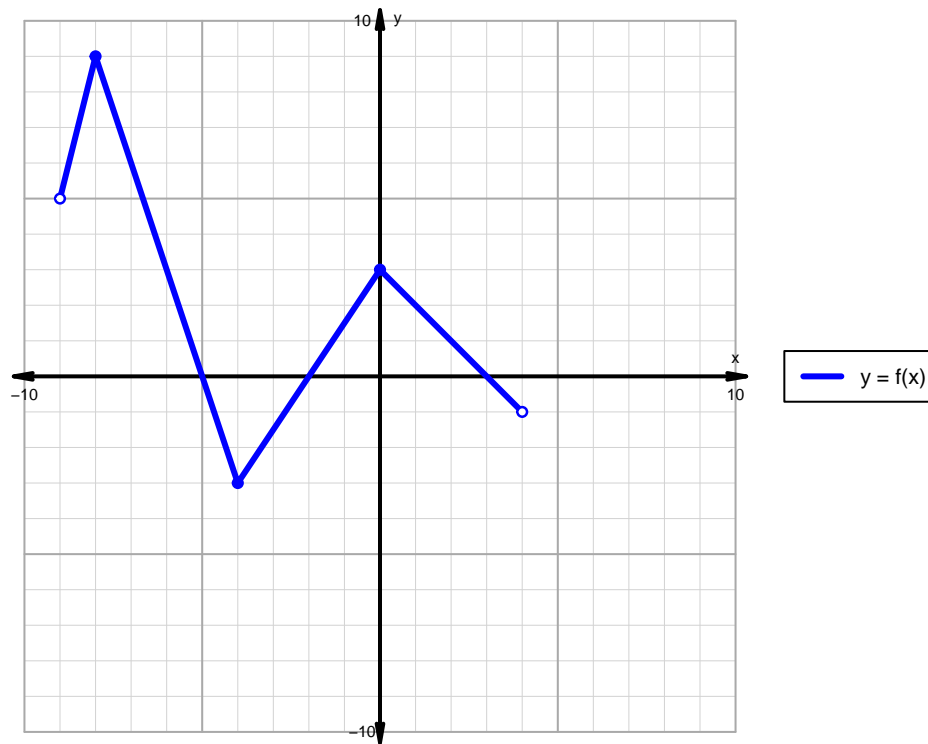


$$y = (2x)^2$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-9, -5) \cup (-2, 3)$
Negative	$(-5, -2) \cup (3, 4)$
Increasing	$(-9, -8) \cup (-4, 0)$
Decreasing	$(-8, -4) \cup (0, 4)$
Domain	$(-9, 4)$
Range	$(-3, 9)$